

SCIENCE & MECHANICS

Recent travelers in Tibet have noticed that while effects of the rarefied air are severely felt at altitudes of between 14,000 and 16,000 feet, on going yet higher all disagreeable sensations pass off.

A Karlsruhe engineer is said to have invented a contrivance by means of which, in the event of fire, the auditorium of a theatre can be detached by hydraulic power from the stage and pushed, audience and all, into the street.

A gigantic fly, the phormium tenax, is a valuable plant peculiar to New Zealand. Its leaves are nine or ten feet long and are so tough that, by splitting one into narrow ribbons and joining the ends, the New Zealander has a first-class rope ready to hand.

For the purpose of glass melting and glass blowing, water is used to great advantage in Bohemia and Stockholm, resulting in a considerable reduction in the cost of fuel. At an incandescent lamp factory making from 5000 to 7000 lamps a day, where coal gas was previously used, the introduction of the Delvik gas reduced the cost of fuel about eighty per cent. in soldering the glass bulbs and in heating the lamp during the vacuum pumping.

A great improvement is said to have been recently made in woodworking machinery by a resident of Marinette, Mich., who by a simple attachment to the existing machinery makes it possible to manufacture square spindles for stair balustrades and store shelving as rapidly if not faster than the round ones can be made on wood-turning machinery. The improvement is also applicable to other kinds of woodwork. The knives made by Mr. Jewett are capable of cutting across the grain of the wood without tearing and splitting, an achievement which has been aimed at for some time.

In a recent number of the Bulletin of the Italian Aeronautical Society Dr. C. Palazzi, director of the Italian Meteorological Service, gives a very interesting account of the scientific experiments being conducted in Italy with unmanned balloons. The place chosen for the aeronautical station is Pavia, principally owing to its geographical suitability and its distance from mountains and sea. The balloons used are made of a preparation of India rubber. They are sent up in tandem fashion, and are spherical and closed, and have the faculty of expanding to about seventy times their original volume, rising rapidly to an altitude of 20,000 metres and upwards, where a temperature of sixty degrees below zero may be recorded.

"Metalized" Laces.
According to the Paris Cosmos, a French company has been formed to "metalize" embroideries, and wonderful effects have been produced. Experiments have long been under way with a number of articles, such as flowers, leaves and branches, but practical results with laces were only recently secured.

The laces are made conductors of an electric current and placed in a galvanic bath. There they become coated with an exceedingly delicate surface, the colors of which can be regulated at will.

The coating is so fine that not the slightest irregularity can be noticed, and the laces remain perfectly soft and flexible. It makes no difference whether gold, silver, copper, bronze or other metals are employed.

The assertion is made that the metalized points, in spite of the thinness of the metal coating, can be united as if soldered together, so that all sorts of combinations are possible. These metalized goods are used for table ornaments, decorating furniture coverings, graining in parlors, and for ornamentation of the woods, and the metalized laces can even be polished.—New York World.

The Training of a Mother.

No experience better qualifies a man to be a good father of boys than to have been himself a boy. The considerable extent the same thing may be said of girls—that good girls usually make good mothers, and their colleagues (that turn out good women) do enough. But a good mother is far more of a specialist than an average good father. She must be a judge of health, diet, and clothes, and must watch and regulate all the details of the child's life. Mothering is skilled labor; fathering isn't. If the father is a skilled worker, his expertise concerns the things that he does for a living and for the support of his family. That skill he acquires by preliminary training. But the mother's skill of the mother is applied directly to the children, and if it is lacking the children suffer.—Harper's Weekly.

Benefit of a Rural Life.

Fresh country air is wholesome and a sovereign remedy for many of the ills that afflict the weary city dweller. The tendency in this country has been too much to crowd into the great cities, and many of the poor of the slums and overtaxed tenements would be greatly benefited if they could be removed to the farms. The magazines that encourage the love of rural life are doing a great work, and not the least feature of their mission is the cultivation of the aesthetic quality. They promote a love for the beautiful in nature that will result in the preservation of much of the natural loveliness of the country that has been too ruthlessly dealt with by the unappreciative utilitarian in the past.—Nashville Banner.

Timely Fashion Hints

New York City.—The loose coat has certain advantages over every other sort and is greatly in vogue at the



moment, both for the separate wrap and for the costume. This one is designed for young girls and is adapted to all the fashionable suitings, Sicilian, silk, velvet and linen, but as illustrated is made of dark blue mohair.



with the collar of silk, and is simply stitched with corded silk, the skirt being made to match. The flat collar makes a most satisfactory finish for the neck and the double breasted closing allows of using the handsome buttons, which are so much in vogue and which always add to the effect, while the pockets made with flaps are among the smartest of all smart things. The back can be either plain or seamed at the centre as best suits the individual figure.

The coat is made with fronts and back and includes the regulation sleeves that are full at the shoulders and which are stitched to simulate cuffs.

The quantity of material required for the medium size is three and seven-eighths yards twenty-seven, two and one-eighth yards forty-four or one and three-fourths yards fifty-two inches wide.

Embroidered Waist.

Women who are skilled in embroidery are employing their talent for the decoration of shirt waists and tussore silk is a most effective medium. One such waist recently embroidered by a clever artist is a pale blue green in tone and sea weed design. The decorative motif, being carried out in shades of

Use of Vels.

Vels match, as a matter of course. It takes a very pretty woman to look well under a mauve or a green gauze, but vels must match hats. A few white lace vels are seen, and many lace edged net and gauze vels.

Tulle Hats.

Very dashing are the black and colored tulle hats on braid foundation. The shapes approximate to the small, short-back sailor, and the tulle is put on in huge ruffles and rosettes.

sea green and pale pinkish brown. The waist buttons in the back and the front, cuffs and collar are embroidered in the sea weed design.

Fancy Blouse Waist.

The waist that has a chemisette effect makes one of the smartest and best liked of the season, and renders possible many attractive combinations. This one is adapted to almost all seasonable materials and would be equally effective in soft silk and soft wool, with the chemisette either of lace or of embroidered muslin, but, in the illustration, shows pale green messaline satin combined with ecru lace over chiffon only, and trimmed with bands of tulle. The long lines given by the box pleats at the front mean a slender effect to the figure, while the shirtings at the shoulders provide fashionable folds. The sleeves are among the very latest and are so shirred as to avoid excessive breadth of figure.

The waist is made over a smoothly fitted foundation, which can be cut away beneath the chemisette and cuffs when a transparent effect is desired. The closing is made invisibly at the left of the front, and there is a softly draped belt which also is closed at the left side.

The quantity of material required for the medium size is four and one-fourth yards twenty-one, three and one-half yards twenty-seven or two and one-



eighth yards forty-four inches wide with three-eighth yard of silk for belt



one yard of all-over lace and two and one-half yards of lace for frills.

A Pocket Fan.

A pocket evening fan is among the practical innovations. The fan is of the folding order, with a hinge cleverly introduced at the top of each stick, so that it not only closes from side to side, but vertically.

Matching Fads.

The matching fad has been extended to gloves. The latest glove is lined at the top with colored kid, in all shades. This gauntlet is supposed to be turned back over the wrist.

RAM'S HORN BLASTS

HERE is no refuge in retreating from God.

God heeds the cry of those who heed His commands.

A heart full of fashion never made a life full of force.

The best pulpit gown is the robe of righteousness.

When a man is true to God he is never blue himself.

There is no better proof of genius than to be able to create gladness.

No man chooses to live with a saloon on one side of him and the Savior on the other.

Every time a preacher asks for a discount the world discounts the profession of his people.

Shredded Bible makes poor food for any meal.

The Master's yoke will be sure to chafe a stiff neck.

He cannot be a true man who is not a truthful man.

The fever of fear is often mistaken for the fervor of faith.

There is always a good reason for the other fellow's troubles.

A Scripture quotation may be a satanic argument when chosen with a sinful motive.

The trouble with a small man's knowledge is that he always thinks he is a monopolist.

Science may show us the survival of the fittest, but Christ shows us the salvation of the fallen.

What would you think of a lover who stayed away on account of the weather? Yet we say we love the Lord.

If we labeled our troubles by their right names they would not look so like strangers when they turn up again.

Excursion to the Pacific Coast.

The Seaboard announces account of Lewis and Clark Centennial Exposition and other occasions to be held on the Pacific coast season 1905, they will sell round trip tickets from principal points at following rates to Portland, Ore., and return, going via any regular direct route and returning via that or any other regular direct route.

\$11.50; going via San Francisco and Los Angeles, \$82.50. These tickets will be sold practically every day until September 30 and bear final return limit of ninety days from date of sale, and will permit of stop-over at and west of Colorado common points, Cheyenne, Trinidad, Fort Worth, San Antonio and west of St. Paul and Chicago.

For further information as to schedules and rates to the Lewis and Clark exposition, apply to agents, or

C. H. Gattis, T. P. A., Raleigh, N. C.

THE NATIONAL GAME.

Napoleon Lajoie is striking his golf at the bat.

Barry has developed into a very good first baseman.

Fultz is the star base stealer of the American League.

Davis is playing golf edge ball for the Chicago White Sox.

Tannehill is the leading Boston American pitcher this season.

Hewson, of the Washington Club, is proving the find of the season behind the stick.

Malay, who is playing second base for the Brooklyn, was originally signed as an outfielder.

A New York Judge rules that patrons of contests on the diamond must take chances of injury.

Williams, of the New York Americans, is putting up a remarkable game at second base this year.

George Davis, of the Chicago Americans, is the champion run-getter of the two big leagues to date.

"Grimshaw has lived up to expectations in every way," says Manager Collins, of the Boston champions.

No ball player is receiving more praise from the players of all clubs than Turner, the Cleveland shortstop.

Powell, of the New York Americans, is accused of chewing slippery elm to aid him in moistening the "spit" ball.

Elmer Smith, at the age of forty, is playing great ball for the Wilkesbarre Club. He has played with the Pittsburgh, Cincinnati and St. Louis teams.

A Chicago router suggested that Selee's team be called the "Pretzels," because it has Kling, Weiner, Lundgren, Slagle, Pfeiffer, Schulte, Ruelbach and Hoffman on its roll.

Irving Young, star twirler of the Boston Nationals, is a railroad fireman when he is not playing baseball.

He works on a road in New Hampshire during the winter months.

The impure thought is easily crushed before it is spoken, but who can cure its contagion afterwards?

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Instead of being a stench and a scandal, Philadelphia bids fair to take her rightful place among American cities. She has already got her deep channel to that breezy and wholesome sea of public approbation, declares the Philadelphia Record.

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References—Citizens National Bank, The Mercantile Agencies and the trade generally.